

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A thin-film bulk acoustic oscillator comprising:  
a piezoelectric thin film that exhibits a piezoelectric property;  
a first electrode and a second electrode that are disposed on both surfaces of the piezoelectric thin film and apply an excitation voltage to the piezoelectric thin film; and  
a base; wherein:  
the first electrode, the piezoelectric thin film and the second electrode are stacked in this order on the base; and  
~~a surface of the piezoelectric thin film~~ has a surface on which the second electrode is disposed, the surface being polished and having close to the second electrode has  
a root mean square roughness of 2 nanometers or smaller.
2. (Original) The thin-film bulk acoustic oscillator according to claim 1, wherein the piezoelectric thin film is made of zinc oxide or aluminum nitride.
- 3-6. (Canceled)